

ABSTRACT OF THE DISCLOSURE

An electrodeless fluorescent lamp according to the present invention includes: a luminous bulb in which mercury in a liquid state is enclosed as a light emitting substance and which includes a cavity portion; an induction coil which is inserted into the cavity
5 portion and generates an electromagnetic field for generating electric discharge in the luminous bulb; a ballast circuit electrically connected to the induction coil; and a luminophor layer which is provided on the inner surface of the luminous bulb and converts light radiated from the mercury to visible light. In the electrodeless fluorescent lamp, a manganese-activated deep red luminescent substance ($3.5\text{MgO} \cdot 0.5 \text{MgF}_2 \cdot \text{GeO}_2 \cdot \text{Mn}^{4+}$) is
10 contained only in part of the luminophor layer provided on a surface of the cavity portion facing the inner surface of the luminous bulb.